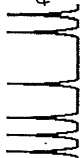


RZ Data Stream
@ 160 Gbit/s

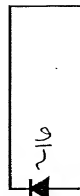


Input
from light source

EA Modulator

12 GHz

Photodetector



Recovered Clock
@ 10 GHz



Microwave

Mixer LO

RF

IF

Lowpass
Filter

10 GHz

VCO

Power
Dividers

20

Output to
utilization
device

Fig. 1

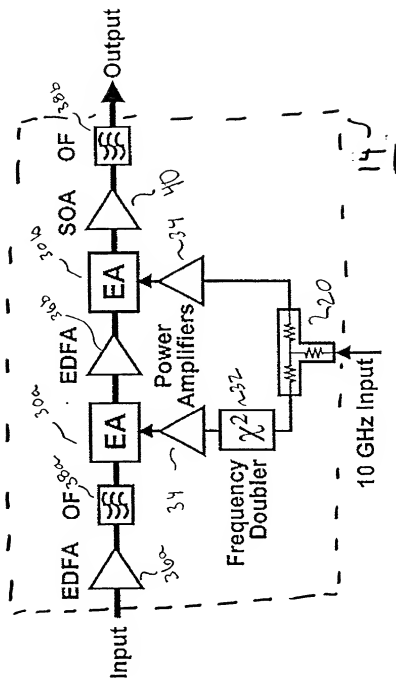


Fig. 2

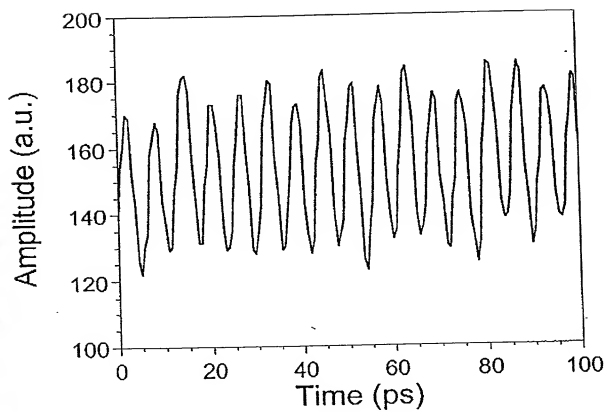
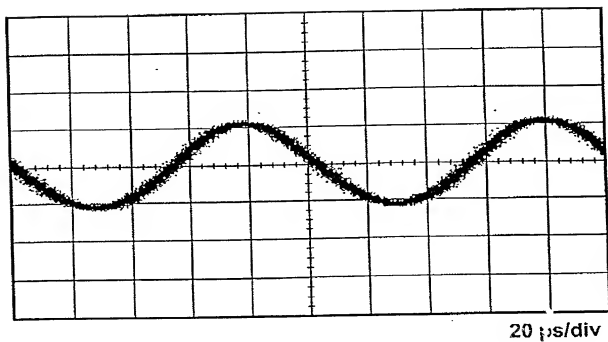


FIG. 3 (a)

FOETEF 2451001

Relative Amplitude (a.u.)

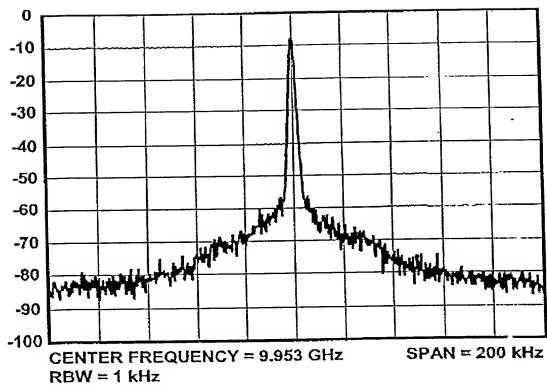


Time (ps)

Fig. 3(b)

1005177.121301

Relative Power (dB)



Frequency (GHz)

Fig. 3(c)

TOE221-24451001
RMS Timing Jitter (fs)

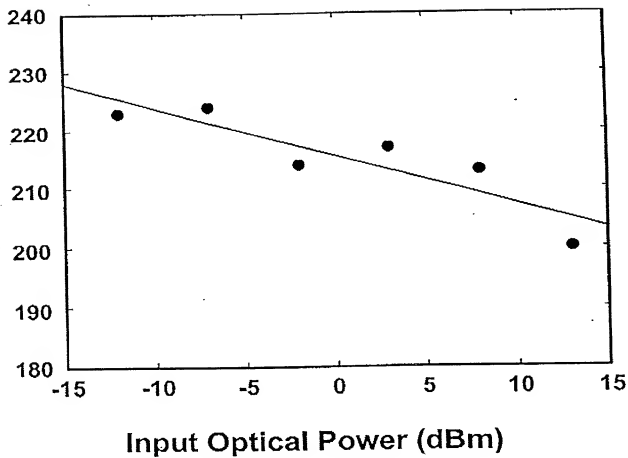


Fig. 3(d)

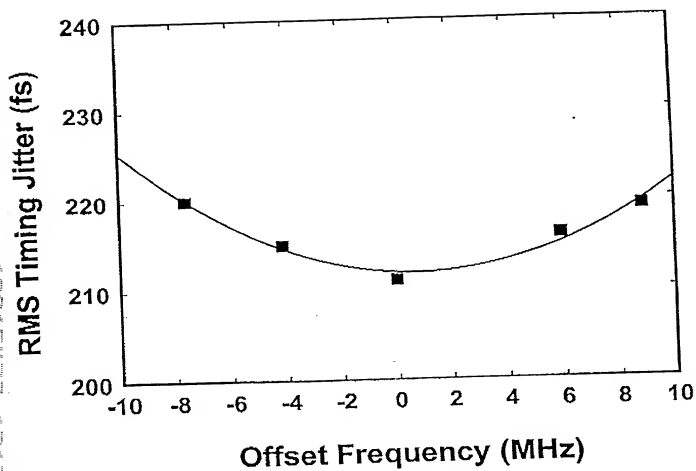


Fig. 3(c)